

## CLAIMS:

1. A method of providing information regarding a location of a mobile user of a communication system, the method comprising:

performing measurements for provision of input data for a location calculation function;

analyzing the measurements to identify suspicious measurements;

deciding selected measurements for use by the location calculation function; and

calculating a location estimate for a mobile user based on the selected measurements.

2. The method as recited in claim 1, wherein the step of analyzing further comprises analyzing a discrepancy between the selected measurements and the location estimate.

3. A communication system comprising:

a measuring device configured to perform measurements for provision of input data for a location calculation function;

an analyzer configured to analyze the measurements to identify suspicious measurements;

a deciding unit configured to decide selected measurements for use by the location calculation function; and

a calculating device configured to calculate a location estimate for a mobile user based on the selected measurements.

4. The communication system as recited in claim 3, wherein the analyzer analyzes a discrepancy between the selected measurements and the location estimate.

5. A communication system comprising:

measuring means for performing measurements for provision of input data for a location calculation function;

analyzing means for analyzing the measurements to identify suspicious measurements;

deciding means for deciding selected measurements for use by the location calculation function; and

calculating means for calculating a location estimate for a mobile user based on the selected measurements.

6. The communication system as recited in claim 5, wherein the analyzing means is further configured for analyzing a discrepancy between the selected measurements and the location estimate.

7. A location system comprising:

a controller configured to control at least one base stations;

a location service node configured to provide a client application with a measurement regarding geographic location information of at least one mobile station;

an interface configured to receive the measurement regarding the geographic location information of the at least one mobile station and to transmit the measurement regarding the geographic location information to a location device;

the location device configured to determine a location estimate based upon the measurement regarding the geographic location; and

a suspicious measurement identifier configured to identify suspicious measurements by analyzing a discrepancy between the measurement and the location estimate.

8. The location system as recited in claim 7, wherein the location service node provides location services for a plurality of client applications.

9. The location system as recited in claim 7, wherein the interface comprises a gateway mobile location center.

10. The location system as recited in claim 7, wherein the location estimate is based upon a measurement regarding a position of the at least one mobile station relative to the at least one base station.

11. The location system as recited in claim 7, wherein the location device comprises the suspicious measurement identifier.

12. A method for providing location information to a user in a communication system, the method comprising:

controlling at least one base station;

providing a client application with a measurement regarding geographic location information of at least one mobile station;

receiving the measurement of the geographic location information of the at least one mobile station;

transmitting the measurement of the geographic location information to a location means for providing location services;

determining a location estimate based upon the measurement regarding the geographic location; and

identifying suspicious measurements by analyzing a discrepancy between the measurement and the location estimate.

13. The method as recited in claim 12, further comprising a step of providing location services for a plurality of client applications.

14. The method as recited in claim 12, further comprising a step of providing a gateway mobile location center for providing said client application.

15. The method as recited in claim 12, the step of determining further comprising a step of calculating the location estimate based upon a measurement regarding a position of the at least one mobile station relative to the at least one base station.

16. The method as recited in claim 12, further comprising a step of providing a location device for identifying the suspicious measurements.

17. A location system comprising:  
controlling means for controlling at least one base stations;  
a first providing means for providing a client application with a measurement regarding geographic location information of at least one mobile station;  
receiving means for receiving the measurement regarding the geographic location information of the at least one mobile station;  
transmitting means for transmitting the measurement regarding the geographic location information to a location means for location services;  
determining means for determining a location estimate based upon the measurement regarding the geographic location; and  
identifying means for identifying suspicious measurements by analyzing a discrepancy between the measurement and the location estimate.

18. The location system as recited in claim 17, further comprising a providing location services for a plurality of client applications.

19. The location system as recited in claim 17 further comprising a third providing means for providing a gateway mobile location center for providing said client application.

20. The location system as recited in claim 17, wherein the determining means comprises a calculating means for calculating the location

estimate based upon a measurement regarding a position of the at least one mobile station relative to the at least one base station.